

FIG. 1A

H A	XATHM	P	HHEAS	M	BXBNMDD	E
I L	HVPANN	L	AACPC	N	IHALBPPI	C
N U	OAHQFL	E	EERYR	L	NOMAONNN	O
3 1	111111	1	13211	1	12141211	K
	/ ///		///		/ ///	
GAGGTGAAGCTTCTCGAGTCTGGAGGTGGCCCTGGTGCAGTCTGGAGGATCCCTGAAACTC						
-----+-----+-----+-----+-----+-----+-----+ 60						
CTCCACTTCGAAGAGCTCAGACCTCCACCGGACCACGTCAGACCTCCTAGGGACTTTGAG						
e v k l l e s g g g l v q s g s l k l						
-----+-----+-----+-----+-----+-----+-----+						

F MD	THBTMH	ANAFH	NEB
N SD	FNBANN	VLSOP	LCS
U TE	IFVQLF	AUKA	ARA
H 21	111113	24112	42J
	/	/	/
TCCTGTGCAGCCTCAGGATTCGATTCTTACTACATATTGGATGAGTTGGTCCGGCAGGCT			
-----+-----+-----+-----+-----+-----+-----+ 120			
AGGACACGTCGGAGTCCTAAGCTAAATGATGTATAACCTACTCAACCCAGGCCGTCCTCGA			
s c a a s g f d f t	t y w m s	w v r q a	
-----+-----+-----+-----+-----+-----+-----+			

SASB	SHRM	F	R	M
EPCS	TAAMA	O	S	S
CYRA	UEEAE	K	A	E
111J	11311	1	1	1
	///			
CCAGGGAAGGCCTAGAATGGATTGGAGAAATTCATCCAGATAGCAGTACGATTAACTAT				
-----+-----+-----+-----+-----+-----+-----+ 180				
GGTCCCTTCCGGATCTTACCTAACCTCTTTAAGTAGGTCTATCGTCATGCTAATTGATA				
p g k g l e w i g	e i h p d s s t i n y			
-----+-----+-----+-----+-----+-----+-----+				

H H	B	A	A	BB	A	R
I H	S	L	L	SS	L	S
N A	M	W	W	MM	W	A
P 1	2	2	2	22	2	1

CGCCGCTCTCTAAAGGATAAAATTCATCGTCTCCAGAGACAACGCCAAAAATACGCTGTAC	240
CGCGCAGAGATTTCCTATTAAAGTAGCAGAGGCTCTCTGTGCGGTTTTTATGCGACATG	
a p s l k d k f i v s r d n a k n t l y	

B	M XBMDDD
S	N HGBPPD
P	L OLNNE
1	1 221211

CTGCAAAATGAGCAAAGTGAGATCTGAGGACACAGCCCTTTATTACTGTGCAAGCCTTTAC	300
GACGTTTACTCGTTTCACTCTAGACTCCCTGTGTCGGGAAATAATGACACGTTCCGAAATG	
l q m s k v r s e d t a l y y c a s l y	

BSBEAS	ANHSSBBP	H F H M	B
SESCPC	SLATESL	N I P A	S
ACARYR	UAEYCAAE	F N A E	M
J1J211	14311JJ1	1 1 2 3	2

TTCCGCTTCCCTCGTTTGCTTATTTGGGCCCAAGGACTCCGGTCACTGTCTCTGCA	357
AAGCCGAAGGGACCAACGAATAACCCCGTTCCCTGAGGCCAGTGACAGACGT	
f g f p w f a y w g q g t p v t v s a	

FIG. 1B

PNA N T B A A B B T H  
VSL S T L S S T P  
UPU P H M W T M H H  
2r1 r l 2 2 X 2 1 1

GAAATTCAGCTGACCCAGTCTCACAATAATGATGTCCACATCAGTGGGAGACAGGGTCAGC 60  
CTTTAAGTCGACTGGGTCAGAGTGTTTTACTACAGGTGTAGTACCCCTCTGTCTCCAGTCG  
e i q l t q s h k m m s t s v g d r v s

S BHH R F E AS A BPB E EAS  
F SAA S O C PC L SPS C CPC  
A PEE A K R YR W MAA R PYR  
N 113 1 1 2 11 2 211 2 111

ATCACCTGCAAGGCCAGTCAGGATGTGGGTACTTCTGTAGCCCTGGTATCAACAGAGACCA 120  
TAGTGGACGTTCCGGTCAGTCCCTACACCCATGAAGACATCGGACCATAGTTGTCTCTGCT  
i t c k a s q d v g t s v a w y q q r p

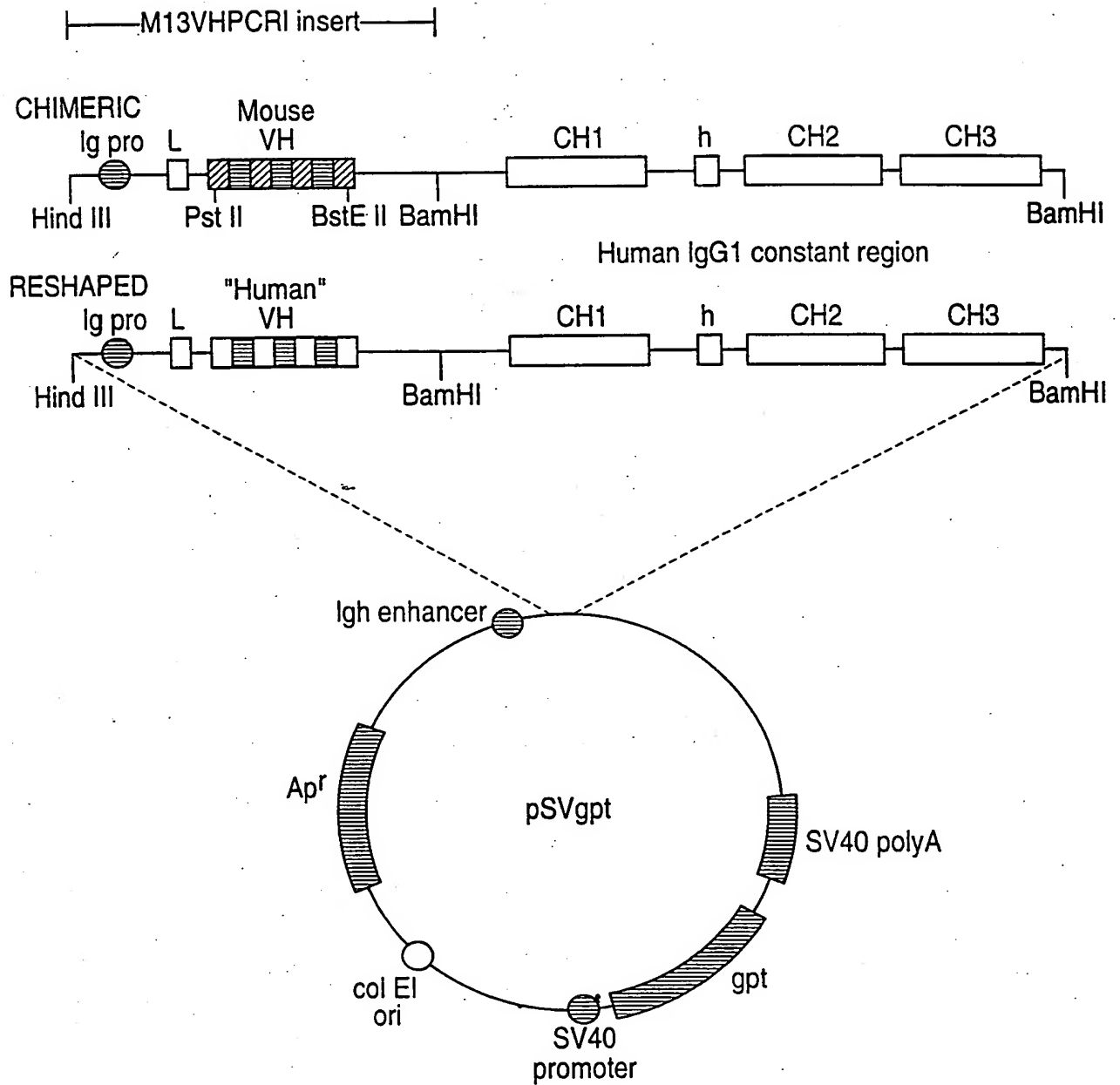
E F NSH HF MPDD  
C O CCP NI BLPP  
O K IRA FN OENN  
D 1 112 11 1121

GGACAACTCTCCTAACTACTGATTACTGGACATCCACCCGGCACACTGGAGTCCCTGAT 180  
CCTGTTAGAGGATTGTGATGACTAAATGACCTGTAGGTGGCCCGTGTGACCTCAGGGACTA  
g q s p k l l i y w t s t r h t g v p d

FIG. 2A



**FIG. 3**



**FIG. 4**

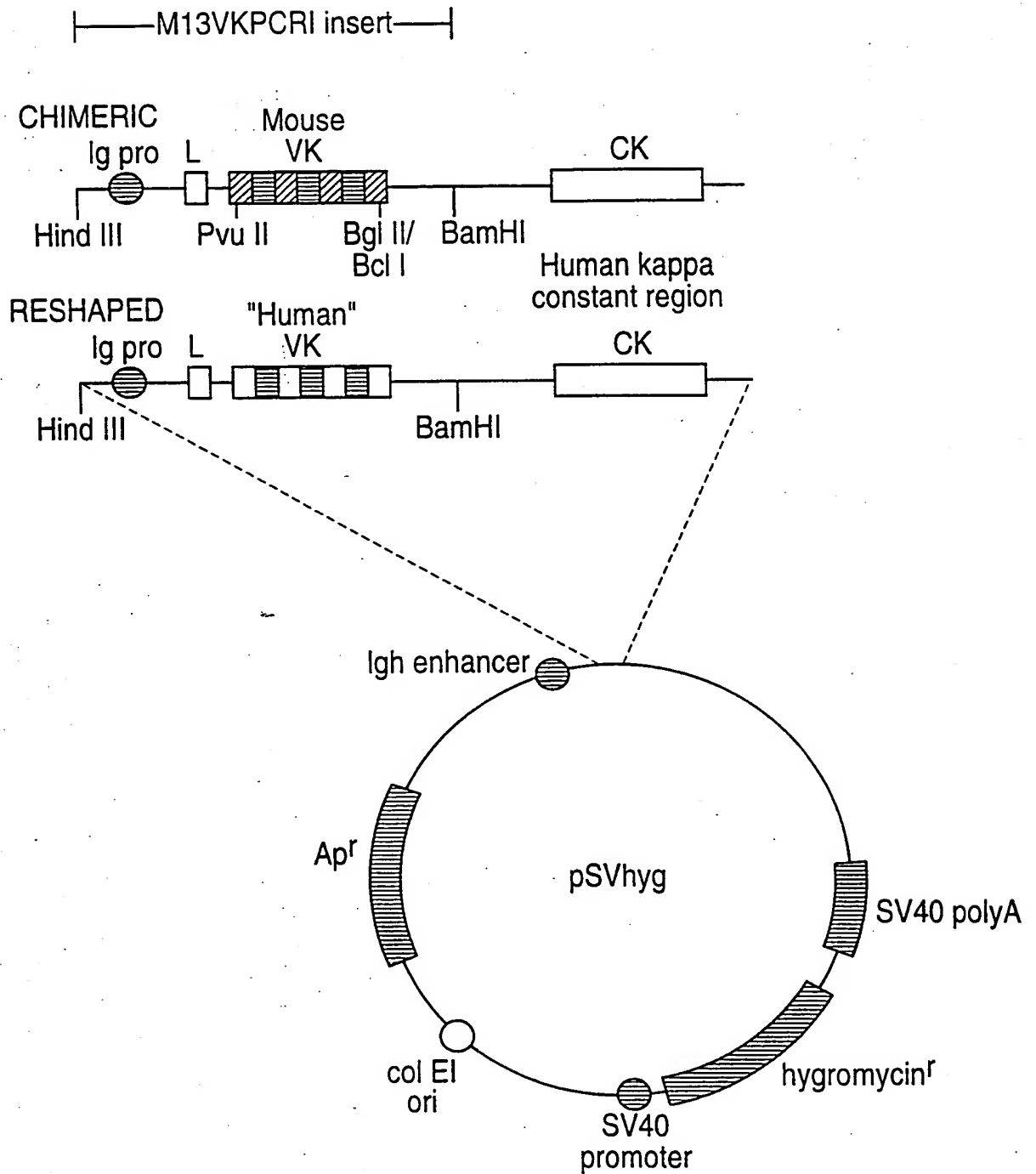


FIG. 5A

MN14VH	EVKLESGGLVQSGGLKLSCAASGDFDTTYWMSWVRQAPGKGLEWIGEI	10v	20v	24	27	2830	40v	50v
NEWMVH	QVQLQESGPGGLVRPSQTLSTCTVSGSTFSNDYTYWVRQPPGKLEWIGIV	10^	20^	30^	40^	50^		
MN14VH	HPDSSTINYAPSLKDKFIVSRDNAKNTLYLQMSKVRSEDTALYYCASLYFG	60v	71	80v	90v	98		
NEWMVH	FYHGTSDDTTP-LRSRVFMLVDTSKNQFSLRLSSVTAADTAVYYCARNLIA	60^	70^	80^	90^	100^		
MN14VH	FPWFAYWGQGTPTVTVSA	110v						
NEWMVH	GC-IDVWGQGTPTVTVSS	110^						
MN14VK	EIQLTQSHKMMSTSVGDRVSITCKASQDVGTSAWYQQRPGQSPKLLIYWT	10v	20v	30v	40v	50v		
REIVK	DIQLTQSPSSLASVGDRTITCQASQDIKYLWYQKPGKAPKLLIYEA	10^	20^	30^	40^	50^		
MN14VK	STRHTGVPDRFTGVSQSGTDFTLTITNVQSEDLADYFCQQY-SLYRSFGGGT	60v	70v	80v	90v	100v		
REIVK	SNLQAQVPSRFSQSGSGTDFTTISLQPEDIAITYYCQQYQSLPYTFGQGT	60^	70^	80^	90^	100^		
MN14VK	KLEIK							
REIVK	K:EIK							
REIVK	KVEIK							

FIG. 5B

MN14VH	10v	20v	30v	40v	50v
	EVKLL	ESGGLVQSGGSLKLS	CAASGFDF	TYWMSWVRQAPGKGLEWIGEI	
	EV:L:ESGGG:VQ:G	SL:LSC::SGF	F:Y M	WVRQAPGKGLEW::I	
KOLVH	10^	20^	30^	40^	50^
	EVQLVESGGGVVQ	PGRSLRLSCSSSGFIFSSYAMY	WVRQAPGKGLEWVAII		
MN14VH	60v	70v	80v	90v	
	HPDSSTINYAPSLKDK	FIVSRD	NAKNTLYLQMSKVRSEDTALYYCAS		
	D:S. :YA S:K::F.:SRDN:KNTL:LQM.:R:EDT::Y:CA				
KOLVH	60^	70^	80^	90^	100^
	WDDGSDQHYADSVKGR	FTISRDN	SKNTLFLQMDSLRPEDTGVYFCARDGGH		
MN14VH	V	110v			
	-LYFGFPWF--AY	WGQGTPTVTVSA			
	::: F	.YWGQGTPTVTS:			
KOLVH	110^	120^			
	GFCSSASC	FGPDYWGQGTPTVTVSS			



FIG. 6A

	FR1	CDR1	FR2
Murine	24 27 30		48
NEWmVh	EVKLLESGGGLVQSGGSLKLSCAASGFDFT	TYWMS	WVRQAPGKGLEWIG
NMHuVh	Q-Q-Q---P---RPSQT-S-T-TV--ST-S	---	---P--R---
NMHUVhTLY	Q-Q-Q---P---RPSQT-S-T-T-----	---	---P--R---
NMHUVhKRSE	Q-Q-Q---P---RPSQT-S-T-T-----	---	---P--R---
NMHUVhKFIVS	Q-Q-Q---P---RPSQT-S-T-T-----	---	---P--R---
KOLVh	Q-Q-Q---P---RPSQT-S-T-T-----	---	---P--R---
KLHuVh	--Q-V---V--P-R-R--SS--I-S	---	---VA
KLHuVhAIG	--Q-V---V--P-R-R--SS-----	---	---VA
KLHuVhAIGA	--Q-V---V--P-R-R--S-----	---	---
KLHuVhAIGAY	--Q-V---V--P-R-R--S-----	---	---



FIG. 6C

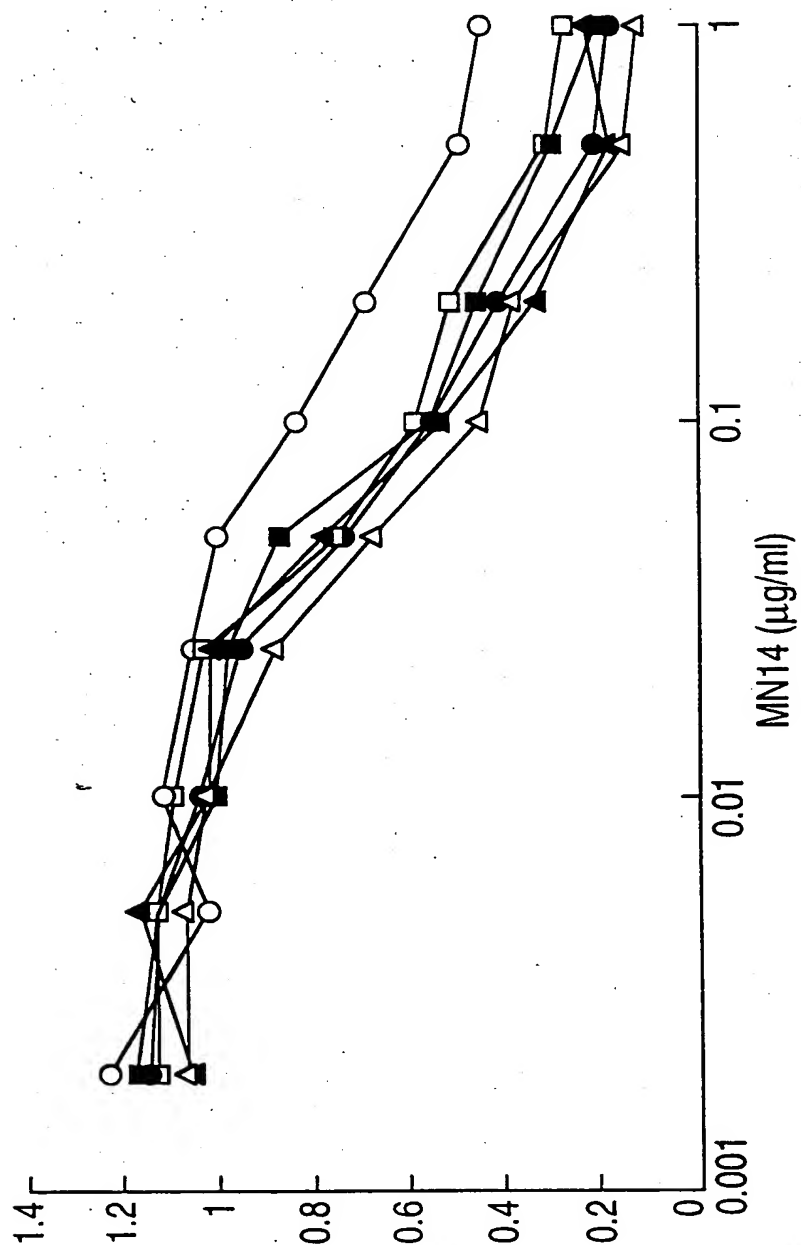
	CDR3	FR4
Murine	LYFGFPWFAY	WGQGTPTVSA
NEWMVh	---	---T---
NMHuVh	---	---T---
NMHUVhTLY	---	---T---
NMHUVhKRSE	---	---T---
NMHUVhKFIVS	---	---T---
KOLVh	---	---
KLHuVh	---	---
KLHuVhAIG	---	---
KLHuVhAIGA	---	---
KLHuVhAIGAY	---	---

[illegible]

CDRH3



FIG. 9



**FIG. 10**

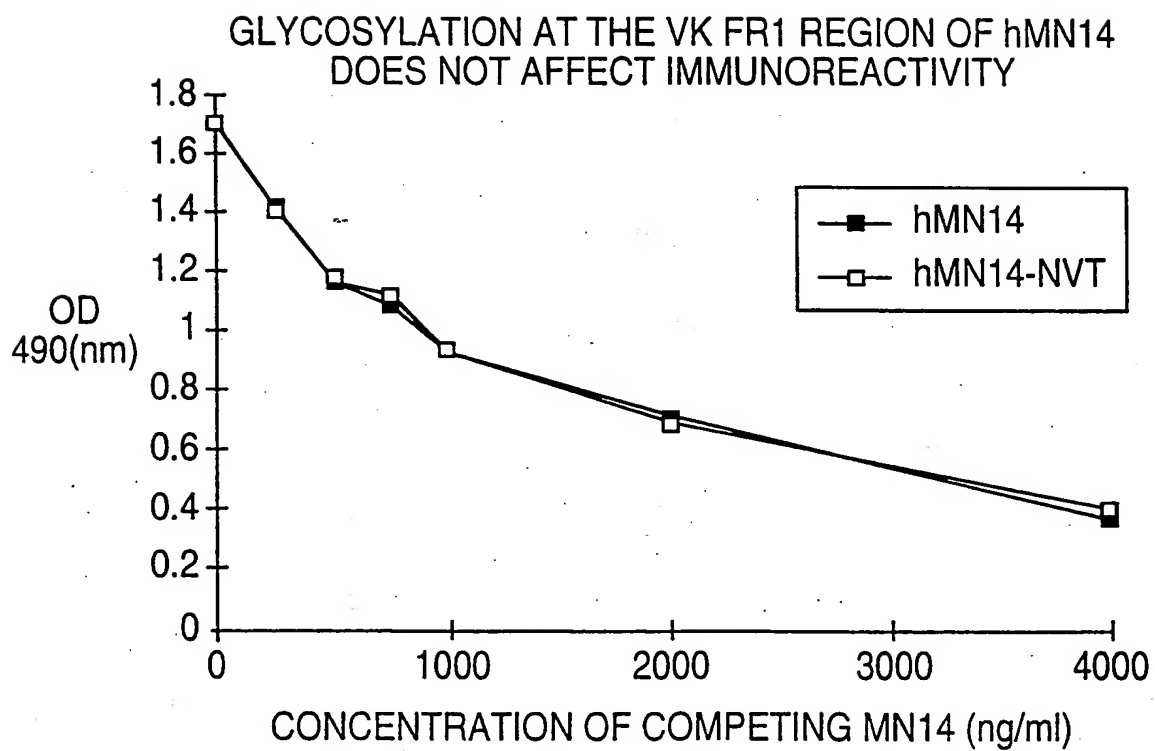


FIG. II

